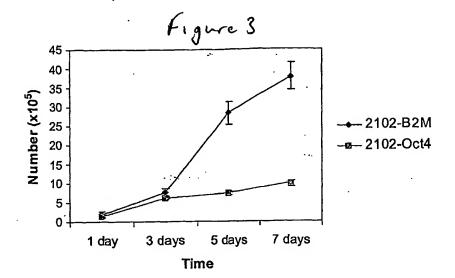
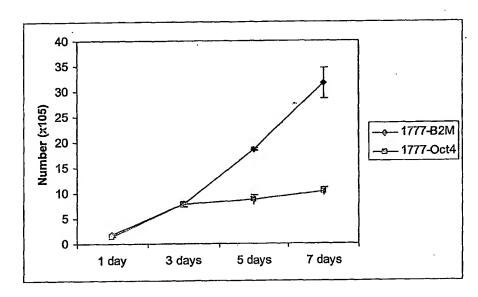
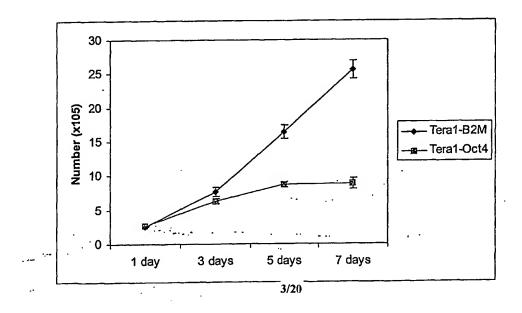


Figure 2







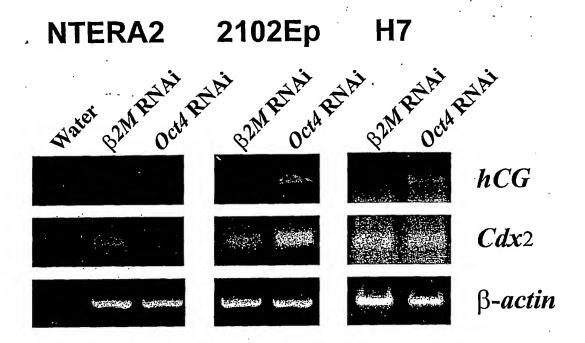


Figure 4

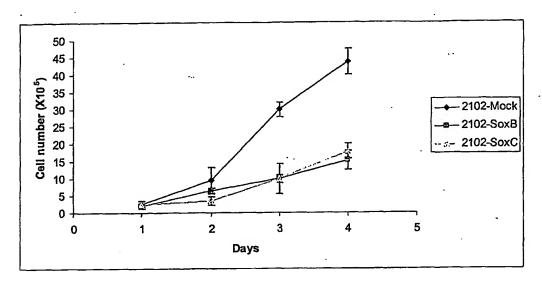
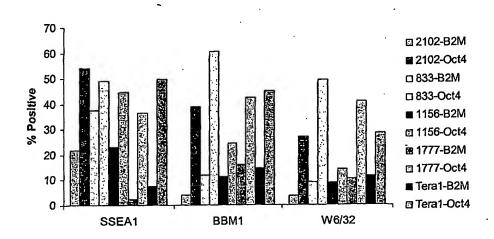


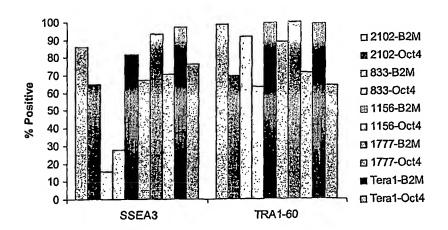
Figure 5

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Figure 6

A

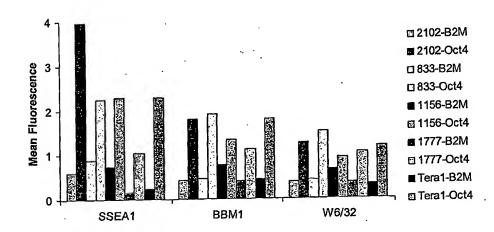


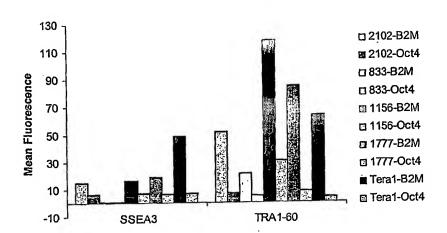


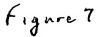
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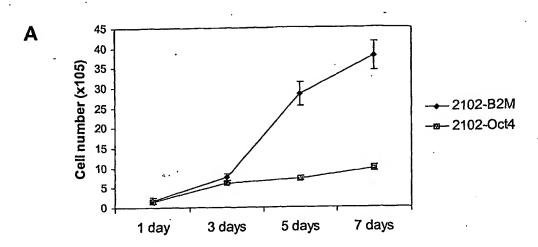
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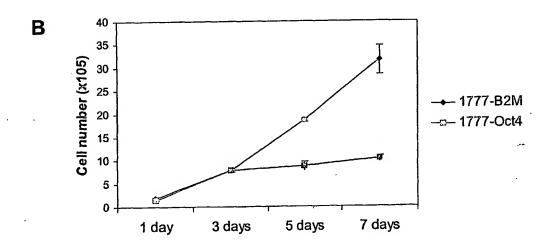
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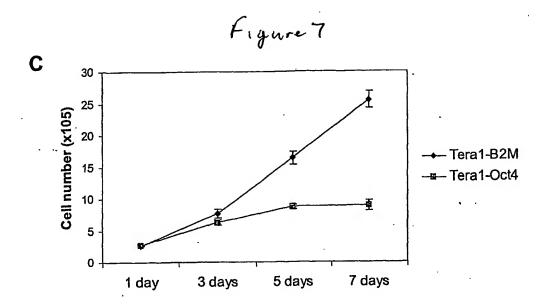


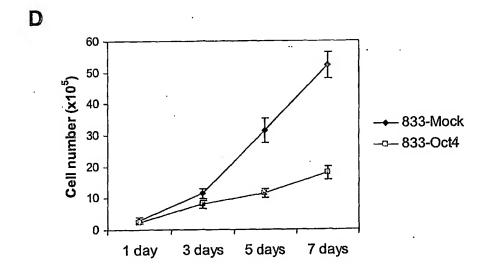












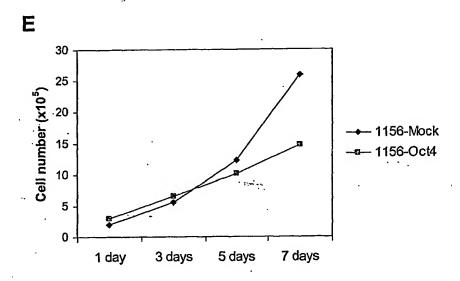


Figure 7

1 2 3 4 5 6 7 8 9 10

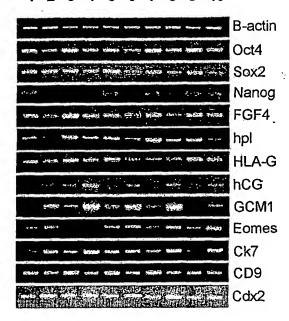


Figure 8

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Figure 9

 ${\tt GTAGTCCTTTGTTACATGCATGAGTCAGTGAACAGGGAATGGGTGAATGACATTTGTGGGTAGGTTATTT}$ $\tt CTAGAAGTTAGGTGGGCAGCTCGGAAGGCAGATGCACTTCTACAGACTATTCCTTGGGGCCACACGTAGG$ TTCTTGAATCCCGAATGGAAAGGGGAGATTGATAACTGGTGTGTTTATGTTCTTACAAGTCTTCTGCCTT GAAGAGGATCACCCTGGGATATACACAGGCCGATGTGGGGGCTCACCCTGGGGGTTCTATTTGGGAAGGTA TTCAGCCAAACGACCATCTGCCGCTTTGAGGCTCTGCAGCTTAGCTTCAAGAACATGTGTAAGCTGCGGC CCTTGCTGCAGAAGTGGGTGGAGGAAGCTGACAACAATGAAAATCTTCAGGAGATATGCAAAAGCAGAAAC CCTCGTGCAGGCCCGAAAGAGAAAGCGAACCAGTATCGAGAACCGAGTGAGAGCCAACCTGGAGAATTTG TTCCTGCAGTGCCCGAAACCCACACTGCAGCAGATCAGCCACATCGCCCAGCAGCTTGGGCTCGAGAAGG ATGTGGTCCGAGTGTGGTTCTGTAACCGGCGCCAGAAGGGCAAGCGATCAAGCAGCGACTATGCACAACG AGAGGATTTTGAGGCTGCTGGGTCTCCTTTCTCAGGGGGACCAGTGTCCTTTCCTCTGGCCCCAGGGCCC CATTTGGTGCCCCAGGCTATGGGAGCCCTCACTTCACTGCACTGTACTCCTCGGTCCCTTTCCCTGAGG TTTTTGGATTAAGTTCTTCATTCACTAAGGAAGGAATTGGGAACACAAAGGGTGGGGGCAGGGAGTTTG GGGCAACTGGTTGGAGGGAAGGTGAAGTTCAATGATGCTCTTGATTTTAATCCCACATCATGTATCACTT TTTTCTTAAATAAAGAAGCTTGGGACACAGTAGATAGA

Figure 10a

TGAGCCCCAGGCTTAAGCCTTTCCAAAAAATAATAATAACAATCATCGGCGGCGGCAGGATCGGCCAGAG ${\tt GAGGAGGGAAGCGCTTTTTTGATCCTGATTCCAGTTTGCCTCTCTTTTTTTCCCCCCAAATTATTCTT}$ GGCGGCAACTCCACCGCGGCGGCGGCCGGCGGCAACCAGAAAAACAGCCCGGACCGCGTCAAGCGGCCCA TGAATGCCTTCATGGTGTGGTCCCGCGGGCAGCGGCGCAAGATGGCCCCAGGAGAACCCCCAAGATGCACAA CTCGGAGATCAGCAAGCGCCTGGGCGCCGAGTGGAAACTTTTGTCGGAGACGGAGAAGCGGCCGTTCATC GACGAGGCTAAGCGGCTGCGAGCGCTGCACATGAAGGAGCACCCGGATTATAAATACCGGCCCCGGCGGA AAACCAAGACGCTCATGAAGAAGGATAAGTACACGCTGCCCGGCGGGCTGCTGGCCCCCGGCGGCAATAG CATGGCGAGCGGGGTCGGGCGCGGCCTGGGCGCGGGCGTGAACCAGCGCATGGACAGTTACGCG CACATGAACGGCTGGAGCAACGGCAGCTACAGCATGATGCAGGACCAGCTGGGCTACCCGCAGCACCCGG GCCTCAATGCGCACGGCGCAGCGCAGATGCAGCCCATGCACCGCTGCAGCGCGCCCTGCAGTACAA ACCCCTGGCATGGCTCCATGGGTTCGGTGGTCAAGTCCGAGGCCAGCTCCAGCCCCCCTGTGG TTACCTCTTCCTCCCACTCCAGGGCGCCCTGCCAGGCCGGGACCTCCGGGACATGATCAGCATGTATCT CCCCGGCCCCAGGTGCCGGAACCCGCCCCCCAGCAGACTTCACATGTCCCAGCACTACCAGAGCGGC CCGGTGCCCGGCACGGCCATTAACGGCACACTGCCCCTCTCACACATGTGAGGGCCCGGACAGCGAACTGG AGGGGGGAGAATTTTCAAAGAAAAACGAGGGAAATGGGAGGGGTGCAAAAGAGGAGAGTAAGAAACAGC GCTGCAAAAGAGAACACCAATCCCATCCACACTCACGCAAAAACCGCGATGCCGACAAGAAAACTTTTAT GAGAGAGATCCTGGACTTCTTTTGGGGGACTATTTTTGTACAGAGAAAACCTGGGGAGGGTGGGGAGGG CGGGGGAATGGACCTTGTATAGATCTGGAGGAAAGAAAGCTACGAAAAACTTTTTAAAAGTTCTAGTGGT ACGGTAGGAGCTTTGCAGGAAGTTTGCAAAAGTCTTTACCAATAATATTTAGAGCTAGTCTCCAAGCGAC GAAAAAATGTTTTAATATTTGCAAGCAACTTTTGTACAGTATTTATCGAGATAAACATGGCAATCAAAA TGTCCATTGTTTATAAGCTGAGAATTTGCCAATATTTTTCAAGGAGAGGCTTCTTGCTGAATTTTGATTC TGCAGCTGAAATTTAGGACAGTTGCAAACGTGAAAAGAAGAAAATTATTCAAATTTGGACATTTTAATTG TTTAAAAATTGTACAAAAGGAAAAATTAGAATAAGTACTGGCGAACCATCTCTGTGGTCTTGTTTAAAA AGGGCAAAAGTTTTAGACTGTACTAAATTTTATAACTTACTGTTAAAAGCAAAAATGGCCATGCAGGTTG TGAAATTACTGTGTTTGAAATATTTTCTTATGGTTTGTAATATTTCTGTAAATTTATTGTGATATTTTAA GGTTTTCCCCCCTTTATTTTCCGTAGTTGTATTTTAAAAGATTCGGCTCTGTATTATTTGAATCAGTCTG ${\tt CCGAGAATCCATGTATATTTGAACTAATATCATCCTTATAACAGGTACATTTCAACTTAAGTTTTTA}$

Figure 10b

SoxB

SoxB: 5'-CAACUCCAUGACCAGCUCGdTdT-3' (sense)

SoxC

SoxC: 5'-CGAGCUGGUCAUGGAGUUGdTdT-3' (sense)

Figure 11

TCAGGGAGGCGCGCACTGCTCCAGAGTCCCAGCTCCAGCCGCGCTTTCCGCCCGGCTCGCCGCTCC ATGCAGCCGGGGTAGAGCCCGGCGCCCCGGGGCCCCGTCGCTTGCCTCCCGCACCTCCTCGGTTGCGCAC TCCCGCCCGAGGTCGGCCGTGCGCTCCCGCGGGACGCCACAGGCGCAGCTCTGCCCCCAGCTTCCCGGG CGCACTGACCGCCTGACCGACGCACGCCCTCGGGCCGGGATGTCGGGGCCCGGGACGGCCGCGGTAGCGC TGCTCCCGGCGGTCCTGCTGGCCTTGCTGGCGCCCTGGGCGGGCCGAGGGGGGCGCCGCCGCACCCACTGC ACCCAACGGCACGCTGGAGGCCGAGCTGGAGCGCCGCTGGGAGAGCCTGGTGGCGCTCTCGTTGGCGCGC CTGCCGGTGGCAGCGCAGCCCAAGGAGGCGGCCGTCCAGAGCGGCGCCGGCGACTACCTGCTGGGCATCA AGCGGCTGCGGCGGCTCTACTGCAACGTGGGCATCGGCTTCCACCTCCAGGCGCTCCCCGACGGCGCAT CGGCGGCGCACGCGACACCCGCGACAGCCTGCTGGAGCTCTCGCCCGTGGAGCGGGGCGTGGTGAGC ATCTTCGGCGTGGCCAGCCGGTTCTTCGTGGCCATGAGCAGCAAGGGCAAGCTCTATGGCTCGCCCTTCT TCACCGATGAGTGCACGTTCAAGGAGATTCTCCTTCCCAACAACTACAACGCCTACGAGTCCTACAAGTA CCCCGGCATGTTCATCGCCCTGAGCAAGAATGGGAAGACCAAGAAGGGGAACCGAGTGTCGCCCACCATG AAGGTCACCCACTTCCTCCCCAGGCTGTGACCCTCCAGAGGACCCTTGCCTCAGCCTCGGGAAGCCCCTG GGAGGGCAGTGCGAGGGTCACCTTGGTGCACTTTCTTCGGATGAAGAGTTTAATGCAAGAGTAGGTGTAA TTTAATTTTCTGGGGGGAAAAAAAGACAAAACAAAAAACCAACTCTGACTTTTCTGGTGCAACAGTGGAG AATCTTACCATTGGATTTCTTTAACTTGT

Figure 12

GGTTTCCGGAGCTGCGGCGCGCAGACTGGGAGGGGGAGCCGGGGGTTCCGACGTCGCAGCCGAGGGAAC AAGCCCCAACCGGATCCTGGACAGGCACCCCGGCTTGGCGCTGTCTCTCCCCCTCGGCTCGGAGAGGCCC TTCGGCCTGAGGGAGCCTCGCCGCCCGTCCCCGGCACACGCGCAGCCCCGGCCTCTCGGCCTCTGCCGGA GAAACAGGATGGCCCAATGGAATCAGCTACAGCAGCTTGACACACGGTACCTGGAGCAGCTCCATCAGCT CTACAGTGACAGCTTCCCAATGGAGCTGCGGCAGTTTCTGGCCCCTTGGATTGAGAGTCAAGATTGGGCA TATGCGGCCAGCAAAGAATCACATGCCACTTTGGTGTTTCATAATCTCCTGGGAGAGATTGACCAGCAGT ATAGCCGCTTCCTGCAAGAGTCGAATGTTCTCTATCAGCACAATCTACGAAGAATCAAGCAGTTTCTTCA GAGCAGGTATCTTGAGAAGCCAATGGAGATTGCCCGGATTGTGGCCCGGTGCCTGTGGGAAGAATCACGC CTTCTACAGACTGCAGCCACTGCGGCCCAGCAAGGGGGCCCAACCACCCCCACAGCAGCCGTGGTGA CGGAGAAGCAGCAGCTGGAGCAGCACCTTCAGGATGTCCGGAAGAGAGTGCAGGATCTAGAACAGAA AATGAAAGTGGTAGAGAATCTCCAGGATGACTTTGATTTCAACTATAAAACCCTCAAGAGTCAAGGAGAC ATGCAAGATCTGAATGGAAACAACCAGTCAGTGACCAGGCAGAAGATGCAGCAGCTGGAACAGATGCTCA $\tt CTGCGCTGGACCAGATGCGGAGAAGCATCGTGAGTGAGCTGGCGGGGCTTTTGTCAGCGATGGAGTACGT$ GCAGAAAACTCTCACGGACGAGGAGCTGGCTGACTGGAAGAGGCGGCAACAGATTGCCTGCATTGGAGGC CCGCCCAACATCTGCCTAGATCGGCTAGAAAACTGGATAACGTCATTAGCAGAATCTCAACTTCAGACCC GTCAACAAATTAAGAAACTGGAGGAGTTGCAGCAAAAAGTTTCCTACAAAGGGGACCCCATTGTACAGCA CCGGCCGATGCTGGAGGAGAATCGTGGAGCTGTTTAGAAACTTAATGAAAAGTGCCTTTGTGGTGGAG CGGCAGCCCTGCATGCCCATGCATCCTGACCGGCCCCTCGTCATCAAGACCGGCGTCCAGTTCACTACTA AAGTCAGGTTGCTGGTCAAATTCCCTGAGTTGAATTATCAGCTTAAAATTAAAGTGTGCATTGACAAAGA CTCTGGGGACGTTGCAGCTCTCAGAGGATCCCGGAAATTTAACATTCTGGGCACAAACACAAAAGTGATG AACATGGAAGAATCCAACAACGGCAGCCTCTCTGCAGAATTCAAACACTTGACCCTGAGGGAGCAGAGAT GTGGGAATGGGGGCCGAGCCAATTGTGATGCTTCCCTGATTGTGACTGAGGAGCTGCACCTGATCACCTT TGAGACCGAGGTGTATCACCAAGGCCTCAAGATTGACCTAGAGACCCACTCCTTGCCAGTTGTGGTGATC

TCCÀACATCTGTCAGATGCCAAATGCCTGGGCGTCCATCCTGTGGTACAACATGCTGACCAACAATCCCA AGAATGTAAACTTTTTTACCAAGCCCCCAATTGGAACCTGGGATCAAGTGGCCGAGGTCCTGAGCTGGCA GTTCTCCTCCACCACCAAGCGAGGACTGAGCATCGAGCAGCTGACTACACTGGCAGAGAAACTCTTGGGA GCTTCTCCTTCTGGGTCTGGCTGGACAATATCATTGACCTTGTGAAAAAGTACATCCTGGCCCTTTGGAA CGAAGGGTACATCATGGGCTTTATCAGTAAGGAGCGGGAGCGGGCCATCTTGAGCACTAAGCCTCCAGGC ACCTTCCTGCTAAGATTCAGTGAAAGCAGCAAAGAAGGAGGCGTCACTTTCACTTGGGTGGAGAAGGACA TCAGCGGTAAGACCCAGATCCAGTCCGTGGAACCATACACAAAGCAGCAGCTGAACAACATGTCATTTGC TGAAATCATCATGGGCTATAAGATCATGGATGCTACCAATATCCTGGTGTCTCCACTGGTCTATCTCTAT CCTGACATTCCCAAGGAGGAGGCATTCGGAAAGTATTGTCGGCCAGAGAGCCAGGAGCATCCTGAAGCTG ${\tt ACCCAGGCGCTGCCCCATACCTGAAGACCAAGTTTATCTGTGTGACACCAACGACCTGCAGCAATACCAT}$ TGACCTGCCGATGTCCCCCCGCACTTTAGATTCATTGATGCAGTTTTGGAAATAATGGTGAAGGTGCTGAA CCCTCAGCAGGAGGGCAGTTTGAGTCCCTCACCTTTGACATGGAGTTGACCTCGGAGTGCGCTACCTCCC CCATGTGAGGAGCTGAGAACGGAAGCTGCAGAAAGATACGACTGAGGCGCCTACCTGCATTCTGCCACCC CTTCTGCTATCTTTGAGCAATCTGGGCACTTTTAAAAATAGAGAAATGAGTGAATGTGGGTGATCTGCTT TTATCTAAATGCAAATAAGGATGTGTTCTCTGAGACCCATGATCAGGGGATGTGGCGGGGGGGTGGCTAGA GGGAGAAAAGGAAATGTCTTGTGTTGTTTTGTTCCCCTGCCCTCCTTTCTCAGCAGCTTTTTTGTTATTG TTGTTGTTGTTCTTAGACAAGTGCCTCCTGGTGCCTGCGGGCATCCTTCTGCCTGTTTCTGTAAGCAAATG CCACAGGCCACCTATAGCTACATACTCCTGGCATTGCACTTTTTAACCTTGCTGACATCCAAATAGAAGA TAGGACTATCTAAGCCCTAGGTTTCTTTTAAATTAAGAAATAATAACAATTAAAGGGCAAAAAACACTG TATCAGCATAGCCTTTCTGTATTTAAGAAACTTAAGCAGCCGGGCATGGTGGCTCACGCCTGTAATCCCA GCACTTTGGGAGGCCGAGGCGGATCATAAGGTCAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACC CCGTCTCTACTAAAAGTACAAAAAATTAGCTGGGTGTGGTGGTGGGGCGCCTGTAGTCCCAGCTACTCGGG AGGCTGAGGCAGGAGAATCGCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAAATTGCACCACTGCA

Figure 13

>gi|13376297|ref|NM_024865.1| Homo sapiens Nanog homeobox (NANOG), mRNA ATTATAAATCTAGAGACTCCAGGATTTTAACGTTCTGCTGGACTGAGCTGGTTGCCTCATGTTATTATGC AGGCAACTCACTTTATCCCAATTTCTTGATACTTTTCCTTCTGGAGGTCCTATTTCTCTAACATCTTCCA GAAAAGTCTTAAAGCTGCCTTAACCTTTTTTCCAGTCCACCTCTTAAATTTTTTCCTCCTCTTCTTAT ACTAACATGAGTGTGGATCCAGCTTGTCCCCAAAGCTTGCCTTGCTTTGAAGCATCCGACTGTAAAGAAT GCCTCACACGGAGACTGTCTCTCCTCTTCCCTCCTCCATGGATCTGCTTATTCAGGACAGCCCTGATTCT TCCACCAGTCCCAAAGGCAAACAACCCACTTCTGCAGAGAATAGTGTCGCAAAAAAGGAAGACAAGGTCC CAGTCAAGAAACAGAAGACCAGAACTGTGTTCTCTTCCACCCAGCTGTGTGTACTCAATGATAGATTTCA GAGACAGAAATACCTCAGCCTCCAGCAGATGCAAGAACTCTCCAACATCCTGAACCTCAGCTACAAACAG GTGAAGACCTGGTTCCAGAACCAGAGAATGAAATCTAAGAGGTGGCAGAAAAACAACTGGCCGAAGAATA GCAATGGTGTGACGCAGAAGGCCTCAGCACCTACCTACCCCAGCCTCTACTCCTACCACCAGGGATG CCTGGTGAACCCGACTGGGAACCTTCCAATGTGGAGCAACCAGACCTGGAACAATTCAACCTGGAGCAAC CAGACCCAGAACATCCAGTCCTGGAGCAACCACTCCTGGAACACTCAGACCTGGTGCACCCAATCCTGGA GCCAAATTCTCCTGCCAGTGACTTGGAGGCTGCTTTGGAAGCTGCTGGGGAAGGCCTTAATGTAATACAG CAGACCACTAGGTATTTTAGTACTCCACAAACCATGGATTTATTCCTAAACTACTCCATGAACATGCAAC CTGAAGACGTGTGAAGATGAGTGAAACTGATATTACTCAATTTCAGTCTGGACACTGGCTGAATCCTTCC TCTCCCCTCCTCCATCCCTCATAGGATTTTTCTTGTTTGGAAACCACGTGTTCTGGTTTCCATGATGCC GCTGGAGTGCAGTGGCGCGTCTTGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCC TCAGCCTCCCGAGCAGCTGGGACTACAGGCGCCCGCCACCTCGCCCGGCTAATATTTTGTATTTTAGTA TCCCTAACAGCTGGGATTACAGGCGTGAGCCACCGCGCCCTGCCTAGAAAAGACATTTTAATAACCTTGG CTGCTAAGGACAACATTGATAGAAGCCGTCTCTGGCTATAGATAAGTAGATCTAATACTAGTTTGGATAT CTTTAGGGTTTAGAATCTAACCTCAAGAATAAGAAATACAAGTACGAATTGGTGATGAAGATGTATTCGT ATTGTTTGGGATTGGGAGGCTTTGCTTATTTTTTAAAACTATTGAGGTAAAGGGTTAAGCTGTAACATA ${\tt TGTAGAAAGAGGTCTTGTATTTGCTGCATCGTAATGACATGAGTACTACTTTAGTTGGTTTAAGTTCAAA}$ TGAATGAACAAATATTTTTCCTTTAGTTGATTTTACCCTGATTTCACCGAGTGTTTCGATGAGTAAATA TACAGCTTAAACAT





Figure 14

GGAGAATCCCCGGAAAGGCTGAGTCTCCAGCTCAAGGTCAAAACGTCCAAGGCCGAAAGCCCTCCAGTTT CCCCTGGACGCCTTGCTCCTGCTTCTGCTACGACCTTCTGGGGAAAACGAATTTCTCATTTTCTTCTTAA ATTGCCATTTTCGCTTTAGGAGATGAATGTTTTCCTTTGGCTGTTTTGGCAATGACTCTGAATTAAAGCG ATGCTAACGCCTCTTTTCCCCCCTAATTGTTAAAAGCTATGGACTGCAGGAAGATGGCCCGCTTCTCTTAC AGTGTGATTTGGATCATGGCCATTTCTAAAGTCTTTGAACTGGGATTAGTTGCCGGGCTGGGCCATCAGG AATTTGCTCGTCCATCTCGGGGATACCTGGCCTTCAGAGATGACAGCATTTGGCCCCCAGGAGGAGCCTGC AATTCGGCCTCGGTCTTCCCAGCGTGTGCCGCCCATGGGGATACAGCACAGTAAGGAGCTAAACAGAACC ACTGTGAGCACGATGTGCGCAAAGAGAACTGTGGGTCTGTGCCCCATGACACCTGGCTGCCCAAGAAGTG TTCCCTGTGTAAATGCTGGCACGGTCAGCTCCGCTGCTTTCCTCAGGCATTTCTACCCGGCTGTGATGGC CTTGTGATGGATGAGCACCTCGTGGCTTCCAGGACTCCAGAACTACCACCGTCTGCACGTACTACCACTT TTATGCTAGTTGGCATCTGCCTTTCTATACAAAGCTACTATTAATCGACATTGACCTATTTCCAGAAATA CAATTTTAGATATCATGCAAATTTCATGACCAGTAAAGGCTGCTGCTACAATGTCCTAACTGAAAGATGA TCATTTGTAGTTGCCTTAAAATAATGAATACAATTTCCAAAATGGTCTCTAACATTTCCTTACAGAACTA CTGGACTGCAATGACGCGATCTTGGTTCACTGCAACCTCCGCATCCGGGGTTCAAGCCATTCTCCTGCCT AGATGGGGGTTTCACCATATTGGCCAGTCTGGTCTCGAACTCTGACCTTGTGATCCATCGATCAGCCTCT CGAGTGCTGAGATTACACACGTGAGCAACTGTGCAAGGCCTGGTGTTTCTTGATACATGTAATTCTACCA AGGTCTTCTTAATATGTTCTTTTAAATGATTGAATTATATGTTCAGATTATTGGAGACTAATTCTAATGT GGACCTTAGAATACAGTTTTGAGTAGAGTTGATCAAAATCAATTAAAATAGTCTCTTTAAAAGGAAAGAA AACATCTTTAAGGGGAGGAACCAGAGTGCTGAAGGAATGGAAGTCCATCTGCGTGTGTGCAGGGAGACTG GGTAGGAAGGAGCAAATAGAAGAGAGGGTTGAAAAACAAAATGGGTTACTTGATTGGTGATTAGG TGGTGGTAGAAAAGGCAAGTAAAAAGGCTAAATGGAAGGCCAAGTTTCCATCATCTATAGAAAGCTATATA ACCTCAATGTCCCCAACAAGATTGCTTAATAAATTGTGTTTCCTCCAAGCTATTCAATTCTTTTAACTGT TGTAGAAGACAAATGTTCACAATATATTTAGTTGTAAACCAAGTGATCAAACTACATATTGTAAAGCCC AAA

Figure 15

GGAGCTCTCCCCGGTCTGACAGCCACTCCAGAGGCCATGCTTCGTTTCTTGCCAGATTTGGCTTTCAGCT TCCTGTTAATTCTGGCTTTGGGCCAGGCAGTCCAATTTCAAGAATATGTCTTTCTCCAATTTCTGGGCTT AGATAAGGCGCCTTCACCCCAGAAGTTCCAACCTGTGCCTTATATCTTGAAGAAAATTTTCCAGGATCGC GAGGCAGCAGCGACCACTGGGGTCTCCCGAGACTTATGCTACGTAAAGGAGCTGGGCGTCCGCGGGAATG TACTTCGCTTTCTCCCAGACCAAGGTTTCTTTCTTTACCCAAAGAAATTTCCCAAGCTTCCTCCTGCCT $\tt CTGGACTTGGGGCCCAATTCTTACTATAACCTGGGACCAGAGCTGGAACTGGCTCTGTTCCTGGTTCAGG$ AGCCTCATGTGTGGGGCCAGACCACCCCTAAGCCAGGTAAAATGTTTGTGTTGCGGTCAGTCCCATGGCC -ACAAGGTGCTGTTCACCTCCACCTGCTGGATGTAGCTAAGGATTGGAATGACAACCCCCGGAAAAATTTC GGGTTATTCCTGGAGATACTGGTCAAAGAAGATAGAGACTCAGGGGTGAATTTTCAGCCTGAAGACACCT GTGCCAGACTAAGATGCTCCCTTCATGCTTCCCTGCTGGTGACTCTCAACCCTGATCAGTGCCACCC TTCTCGGAAAAGGAGAGCAGCCATCCCTGTCCCCAAGCTTTCTTGTAAGAACCTCTGCCACCGTCACCAG $\tt CTATTCATTAACTTCCGGGACCTGGGTTGGCACAAGTGGATCATTGCCCCCAAGGGGTTCATGGCAAATT$ ACTGCCATGGAGAGTGTCCCTTCTCACTGACCATCTCTCAACAGCTCCAATTATGCTTTCATGCAAGC CCTGATGCATGCCGTTGACCCAGAGATCCCCCAGGCTGTGTGTATCCCCACCAAGCTGTCTCCCATTTCC ATGCTCTACCAGGACAATAATGACAATGTCATTCTACGACATTATGAAGACATGGTAGTCGATGAATGTG GGTGTGGGTAGGATGTCAGAAATGGGAATAGAAGGAGTGTTCTTAGGGTAAATCTTTTAATAAAACTACC TATCTGGTTTATGACCACTTAGATCGAAATGTCA

Figure 16

PCT/GB2004/001374

TCGCGGGCCCCGGGGCAACCTGTCGAGCTGGGAGGACTTGCTGCTGTTCACTGACCTCGACCAAGCCGC GACCGCCAGCAAGCTGCTGTGGTCCAGCCGCGCGCCCAAGCTGAGCCCCTTCGCACCCGAGCAGCCGGAG GAGATGTACCAGACCCTCGCCGCTCTCTCCAGCCAGGGTCCGGCCGCCTACGACGGCGCGCCCGGCGGCT GCGGGCGCGCGCGCCACCCCGGCTGGCCTCAGGCCTCGGCCGACAGCCCTCCATACGGCAGCGGAG GCGCCGCGCTGGCGGCGCGCGCGCGCGCCCTGGCGCCTCAGCCGCGCGCACGTCTCGGCGCG GGCAGTGGGGGCGCGGGAGGCGTGAGCGGCGGCAGTAGCCTGGCGGCCATGGGCGCCGCGAGCCCC ACCCCGGTGCTGCACAGCCTGCAGAGCCGCGCGGGGGCCCCGCTCCCGGTGCCCCGGGGTCCCAGTGCAG GCGGGACGGCACCGGCCACTACCTGTGCAACGCCTGCGGGCTCTACAGCAAGATGAACGGCCTCAGCCGG $\verb|CCCTCATCAAGCCGCAGAAGCGCGTGCCTTCATCACGGCGGCTTGGATTGTCCTGTGCCAACTGTCACA|\\$ $\tt CCACAACTACCACCTTATGGCGCAGAAACGCCGAGGGTGAACCCGTGTGCAATGCTTGTGGACTCTACAT$ GAAACTCCATGGGGTGCCCAGACCACTTGCTATGAAAAAAGAGGGAATTCAAACCAGGAAACGAAAACCT AAGAACATAAATAAATCAAAGACTTGCTCTGGTAATAGCAATAATTCCATTCCCATGACTCCAACTTCCA · · · TGCCCCGGTGATGACTGGTGCGGGAGAGAGCACCAATCCCGAGAACAGCGAGCTCAAGTATTCGGGTCAA ${\tt CACTCGTGTCTGCTTTTGTGCAGCGGTCCAGACAGTGGCGACTGCGCTGACAGAACGTGATTCTCGTGCC}$ TTTATTTTGAAAGAGATGTTTTTCCCAAGAGGCTTGCTGAAAGAGTGAGAGAAGATGGAAGGGAAGGGCC AGTGCAACTGGGCGCTTGGGCCACTCCAGCCAGCCGCCTCCGGGGCGGACCCTGCTCCACTTCCAGAAG TTGTCCAAAATCATGTGCTTCTTCTGATCAATTTTGGTTGTTCCAGAATTTCTTCATACCTTTTCCACAT CCAGATTTCATGTGCGTTCATGGAGAAGATCACTTGAGGCCATTTGGTACACATCTCTGGAGGCTGAGTC GGTTCATGAGGTCTCTTATCAAAAATATTACTCAGTTTGCAAGACTGCATTGTAACTTTAACATACACTG CAAACAAGATATTTTTCTTCCATGTATACAATAATTTTTTTAAAAAGTGCAATTTGCGTTGCAGCAATCA CTTAAAATAATTTAAAAGAAAATGTTAACTTAGACATTCTTATGCTTCTTTTACAACTACATCCCATTT TATATTTCCAATTGTTAAAGAAAATATTTCAAGAACAAATCTTCTCTCAGGAAAATTGCCTTTCTCTAT TTGTTAAGAATTTTTATACAAGAACACCAATATACCCCCTTTATTTTACTGTGGAATATGTGCTGGAAAA ATTGCAACAACACTTTACTACCTAACGGATAGCATTTGTAAATACTCTAGGTATCTGTAAACACTCTGAT CCTATGGAAACCTATTTCACCAGAGTTTTAAAAATAAAAAGGGTATTGTTTTGTCTTCTGTACAGTGAGT TCCTTCCCTTTCAAAGCTTTCTTTTTATGCTGTATGTGACTATAGATATTCATATAAAACAAGTGCACG TGAAGTTTGCAAAATGCTTTAAGGCCTTCCTTTCAAAGCATAGTCCTTTTGGAGCCGTTTTGTACCTTTT

Figure 17

PCT/GB2004/001374

- Figure 18

ATGGCCGTCATGGCGCCCCGAACCCTCCTCCTGCTACTCTCGGGGGCCCTGGCCCTGACCCAGACCTGGG CCGCGGGCGCCGTGGATAGAGCAGGAGGGCCCGAGTATTGGGACCAGGAGACACGGAATGTGAAGGCCC AGTCACAGACTGACCGAGTGGACCTGGGGACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGTTCTCA CACCATCCAGATAATGTATGGCTGCGACGTGGGGTCGGACGGGCGCTTCCTCCGCGGGTACCGGCAGGAC GCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGACCTGCGCTCTTGGACCGCGGCGGACATGGCGG CTCAGATCACCAAGCGCAAGTGGGAGGCGGCCCATGAGGCGGAGCAGTTGAGAGCCTACCTGGATGGCAC GTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAAGGAGACGCTGCAGCGCACGGACCCCCCAAG ACACATATGACCCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACC CTGCGGAGATCACACTGACCTGGCAGCGGGATGGGGAGGACCAGACCCAGGACACGGAGCTCGTGGAGAC CAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCGGCTGTGGTGCCTTCTGGAGAGGAGCAGAGA TACACCTGCCATGTGCAGCATGAGGGTCTGCCCAAGCCCCTCACCCTGAGATGGGAGCTGTCTTCCCAGC CCACCATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGGAGCTGTGATCACTGGAGCTGTGGT $\tt CGCTGCCGTGATGTGGAGGAGGAGGAGGAGCTCAGATAGAAAAGGAGGAGGTTACACTCAGGCTGCAAGCAGT$ GACAGTGCCCAGGGCTCTGATGTGTCCCTCACAGCTTGTAAAGTGTGA

Figure 19

AGACGCCGAGATGCTGGTCATGGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACC GAGACCTGGGCCGGCTCCCACTCCATGAGGTATTTCTACACCTCCGTGTCCCGGCCCGGCCGCGGGGAGC CCCGCTTCATCTCAGTGGGCTACGTGGACGACACCCAGTTCGTGAGGTTCGACAGCGACGCCGCGAGTCC GAGAGAGGAGCCGCGGGCGCCGTGGATAGAGCAGGAGGGGCCGGAGTATTGGGACCGGAACACACAGATC TACAAGGCCCAGGCACAGACTGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGG CCGGGTCTCACACCCTCCAGAGCATGTACGGCTGCGACGTGGGGCCGGACGGGCGCCTCCTCCGCGGGCA TGACCAGTACGCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCG GACACGGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCCGTGAGGCGGAGCAGCGGAGAGCCTACC TGGAGGCGAGTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAAGGACAAGCTGGAGCGCGCTGA CCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTGCTGGGCCCTG GGTTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGACCAAACTCAGGACACTGAGC TTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGTGCTTCTTGGAGA AGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCTCACCCTGAGATGGGAGCCG TCTTCCCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCCTAGCAGTTGTGGTCATCG TGCGTGCAGCGACAGTGCCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTT GTGAGGGACTGAGATGCAGGATTTCTTCACGCCTCCCCTTTGTGACTTCAAGAGCCTCTGGCATCTCTTT CTGCAAAGGCACCTGAATGTGTCTGCGTCCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAGCCCACCC TTGTGTCCACTGTGACCCCTGTTCGCATGCTGACCTGTGTTTCCTCCCCA

Figure 20

GAATTCGGGGGGGAGATGCGGGTCATGCGCCCCGAACCCTCATCCTGCTGCTCTCGGGAGCCCTGGCCC GGAGCCCCGCTTCATCGCAGTGGGCTACGTGGACGACACGCAGTTCGTGCGGTTCGACAGCGACGCCGCG AGTCCAAGAGGGGAGCCGCGGGAGCCGTGGGTGGAGCAGGAGGGGGCCGGAGTATTGGGACCGGGAGACAC AGAAGTACAAGCGCCAGGCACAGGCTGACCGAGTGAACCTGCGGAAACTGCGCGGCTACTACAACCAGAG ${\tt CGAGGACGGGTCTCACACCCTCCAGAGGATGTTTGGCTGCGACCTGGGGCCGGACGGGCGCCTCCTCCGC}$ GGGTATAACCAGTTCGCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGATCTGCGCTCCTGGACCG CCGCGGACACGGCGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCGTGAGGCGGAGCAGCGGAGAGC CTACCTGGAGGGCACGTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAAGGAGACGCTGCAGCGC GCGGAACACCCAAAGACACACGTGACCCACCATCCCGTCTCTGACCATGAGGCCACCCTGAGGTGCTGGG $\tt CCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGTGGGATGGGGAGGACCAAACTCAGGACAC$ $\tt CGAGCTTGTGGAGACCAGGCCAGCAGGAGATGGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCT$ GGAGAAGAGCAGAGATACACGTGCCATGTTCAGCACGAGGGGCTGCCGGAGCCCCTCACCCTGAGATGGA AGCCGTCTTCCCAGCCCACCATCCCCATCGTGGGCATCGTTGCTGGCCTGGCTGTCCTAGC TGTCCTAGGAGCTATGGTGGCTGTTGTGATGTGTAGGAGGAAGAGCTCAGGTGGAAAAGGAGGAGCTGC TCTCAGGCTGCGTCCAGCAACAGTGCCCAGGGCTCTGATGAGTCTCTCATCGCTTGTAAAGCCTGAGACA GCTGCCTGTGTGGGACTGAGATGCAGGATTTCTTCACACCTCTCTTTGTGACTTCAAGAGCCTCTGGCA TCTCTTTCTGCAAAGGCATCTGAATGTGTCTCCGTTCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAG

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CCCGAATTC

Figure 21

ACTCCTTGAAGTATTTCCACACTTCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCATCTCTGTGGG CTACGTGGACGACACCCAGTTCGTGCGCTTCGACAACGACGCCGCGAGTCCGAGGATGGTGCCGCGGGCG CCGTGGATGGAGCAGGAGGGGTCAGAGTATTGGGACCGGGAGACACGGAGCGCCAGGGACACCGCACAGA TTTTCCGAGTGAACCTGCGGACGCTGCGCGGCTACTACAATCAGAGCGAGGCCGGGTCTCACACCCTGCA GTGGATGCATGGCTGCGAGCTGGGGCCCGACGGGCGTTCCTCCGCGGGTATGAACAGTTCGCCTACGAC GGCAAGGATTATCTCACCCTGAATGAGGACCTGCGCTCCTGGACCGCGGTGGACACGGCGGCTCAGATCT CCGAGCAAAAGTCAAATGATGCCTCTGAGGCGGAGCACCAGAGAGCCTACCTGGAAGACACATGCGTGGA GTGGCTCCACAAATACCTGGAGAAGGGGAAGGAGACGCTGCTTCACCTGGAGCCCCCAAAGACACACGTG ACTCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGA TCACACTGACCTGGCAGCAGGATGGGGAGGGCCATACCCAGGACACGGAGCTCGTGGAGACCAGGCCTGC AGGGGATGGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCTGGAGAGAGCAGAGATACACGTGC CATGTGCAGCATGAGGGGCTACCCGAGCCCGTCACCCTGAGATGGAAGCCGGCTTCCCAGCCCACCATCC CCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGGATCTGTGGTCTCTGGAGCTGTGGTTGCTGCTGT GATATGGAGGAGGAGGAGCTCAGGACATTTTCTTCCAACAGGTGGAAAAGGAGGAGCTACTCTAAGGCT GAGTGGAGCGACAGTGCCCAGGGGTCTGAGTCTCACAGCTTGTAA

Figure 22

GTACGTAGACGACACGCAATTCCTGCGGTTCGACAGCGACGCCGCGATTCCGAGGATGGAGCCGCGGGAG CCGTGGGTGGAGCAAGAGGGGCCGCAGTATTGGGAGTGGACCACAGGGTACGCCAAGGCCAACGCACAGA CTGACCGAGTGGCCCTGAGGAACCTGCTCCGCCGCTACAACCAGAGCGAGGCTGGGTCTCACACCCTCCA GGGAATGAATGGCTGCGACATGGGGCCCGACGGACGCCTCCTCCGCGGGTATCACCAGCACGCGTACGAC GGCAAGGATTACATCTCCCTGAACGAGGACCTGCGCTCCTGGACCGCGGCGGACACCGTGGCTCAGATCA GTTGCTCCGCAGATACTTGGAGAATGGGAAGGAGACGCTACAGCGCGCAGATCCTCCAAAGGCACACGTT GCCCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGA TCACGCTGACCTGGCAGCGGGATGGGGAGGAACAGACCCAGGACACAGAGCTTGTGGAGACCAGGCCTGC AGGGGATGGAACCTTCCAGAAGTGGGCCGCTGTGGTGGTGCCTTCTGGAGAGGAACAGAGATACACATGC CATGTGCAGCACGAGGGGCTGCCCCAGCCCCTCATCCTGAGATGGGAGCAGTCTCCCCAGCCCACCATCC GATGTGGAGGAAGAAGAGCTCAGATAGAAACAGAGGGAGCTACTCTCAGGCTGCAGTCACTGACAGTGCC CAGGGCTCTGGGGTGTCTCTCACAGCTAATAAAGTGTGAGACAGCTTCCTTGTGTGGGACTGAGAAGCAA

Figure 23

CCCATTAGGTGACAGGTTTTTAGAGAAGCCAATCACGTCGCCGCGGTCCTGGTTCTAAAGTCCTCGCTCA CCCACCCGGACTCATTCTCCCCAGACGCCAAGGATGGTGGTCATGGCGCCCCGAACCCTCTTCCTGCTGC TCTCGGGGGCCCTGACCCTGACCGAGACCTGGGCGGCTCCCACTCCATGAGGTATTTCAGCGCCGCCGT GTCCCGGCCCGGCCGCGGGAGCCCCGCTTCATCGCCATGGGCTACGTGGACGACACGCAGTTCGTGCGG ATTGGGAAGAGAGACACGGAACACCAAGGCCCACGCACAGACTGACAGAATGAACCTGCAGACCCTGCG CGGCTACTACAACCAGAGCGAGGCCAGTTCTCACACCCTCCAGTGGATGATTGGCTGCGACCTGGGGTCC GACGGACGCCTCCTCCGCGGGTATGAACAGTATGCCTACGATGGCAAGGATTACCTCGCCCTGAACGAGG ACCTGCGCTCCTGGACCGCAGCGGACACTGCGGCTCAGATCTCCAAGCGCAAGTGTGAGGCGGCCAATGT AAGGAGATGCTGCAGCGCGCGCACCCCCCAAGACACACGTGACCCACCACCCTGTCTTTGACTATGAGG $\tt CCACCCTGAGGTGCTGGGCCTTGGGCTTCTACCCTGCGGAGATCATACTGACCTGGCAGCGGGATGGGGA$ GGACCAGACCCAGGACGTGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCA GCTGTGGTGGTGCCTTCTGGAGAGGAGCAGAGATACACGTGCCATGTGCAGCATGAGGGGCTGCCGGAGC CCCTCATGCTGAGATGGAAGCAGTCTTCCCTGCCCACCATCCCCATCATGGGTATCGTTGCTGGCCTGGT AAAGGAGGGAGCTACTCTCAGGCTGCAAGTAAGTATGAAGGAGGCTGATCCCTGAGATCCTTGGGATCTT



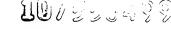


Figure 24

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